

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : B65D 65/40, 5/42	A1	(11) International Publication Number: WO 98/00350 (43) International Publication Date: 8 January 1998 (08.01.98)
(21) International Application Number: PCT/SE97/01102 (22) International Filing Date: 19 June 1997 (19.06.97) (30) Priority Data: 9602607-5 1 July 1996 (01.07.96) SE (71) Applicant (for all designated States except US): TETRA LAVAL HOLDINGS & FINANCE S.A. [CH/CH]; 70, avenue Général-Guisan, CH-1009 Pully (CH). (72) Inventor; and (75) Inventor/Applicant (for US only): LASSON, Rolf [SE/SE]; Rudeboksvägen 307, S-226 55 Lund (SE). (74) Agent: PERSSON, Eva; AB Tetra Pak, Ruben Rausings gata, S-221 86 Lund (SE).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MO, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (OH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report.	
(54) Title: A CREASE-LINED PACKAGING LAMINATE, A METHOD OF PROVIDING A PACKAGING LAMINATE WITH CREASE LINES, AND PACKAGING CONTAINERS PRODUCED FROM THE LAMINATE (57) Abstract The disclosure relates to a crease-lined packaging laminate (20) which makes for more distinct and well-formed fold edges and thereby packaging containers with an attractive appearance and good configurational stability and handling stability, as well as a simple method of providing a packaging laminate with crease lines, which makes for more rational, and more economical changing of crease line patterns without the employment of expensive creasing tools. A packaging laminate (20) comprising at least two layers (11, 12) which both contribute to the total rigidity of the packaging laminate is provided with fold indications in that the adhesion between the two layers is reduced or eliminated along the linear regions along which the packaging laminate is to be folded. Since both of the layers can be deformed more independently of one another along the linear adhesion-reduced fold regions (14), the total flexural resistance of the packaging laminate is less in these regions than in the rest of the packaging laminate. The adhesive bonding strength between the two layers (11, 12) may, for example, be reduced by applying an adhesion-counteracting agent on one or both of the layers within the linear crease line regions, or by applying an adhesion-promoting agent in the regions outside these crease line regions. In particular, the adhesion may be reduced by bringing the two layers to surface fusion with one another by the supply of heat to regions outside the crease lines. For example, the surfaces in the regions outside the crease lines may be darkened or blackened in order to absorb more heat than the relatively lighter crease line regions.		

